

FIG. 1A
Original nickel tool

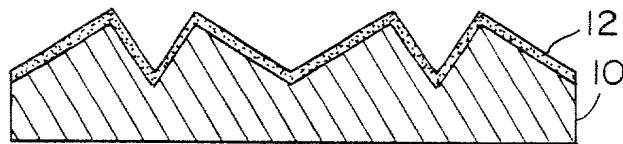


FIG. 1B
Coat tool with layer of photoresist

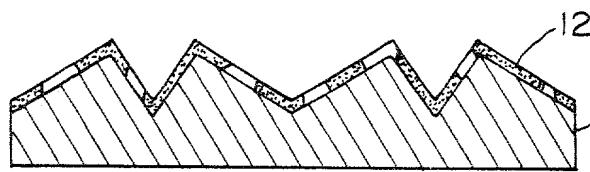


FIG. 1C
Random exposure of photoresist to
a speckle pattern

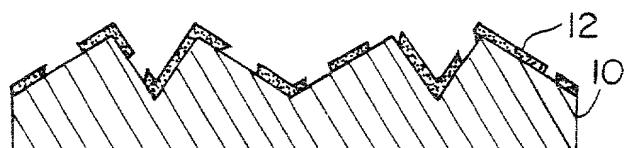


FIG. 1D
Development of resist

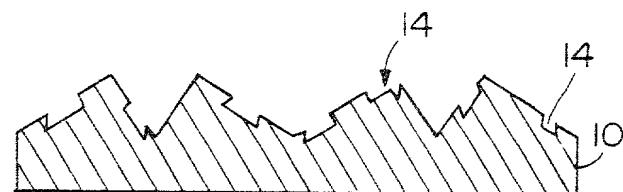


FIG. 1E
Reactive ion-etching to produce
modified mold body

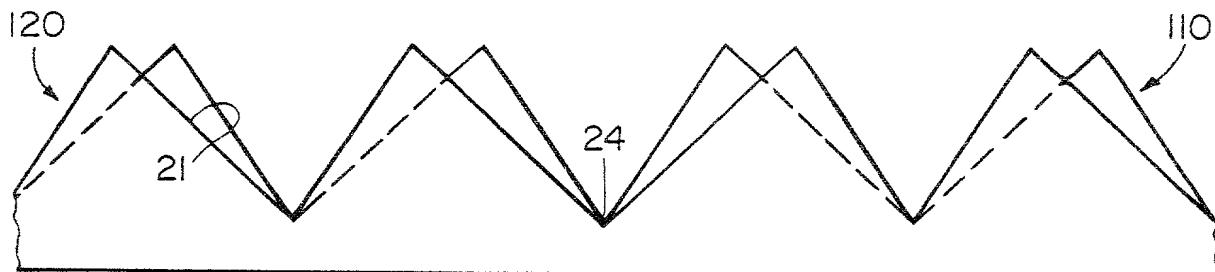


FIG. 3

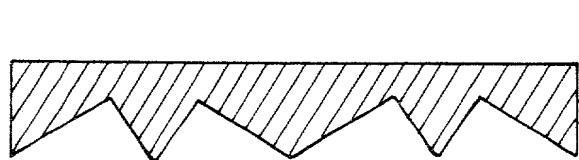


FIG. 2A

Cast of original tool

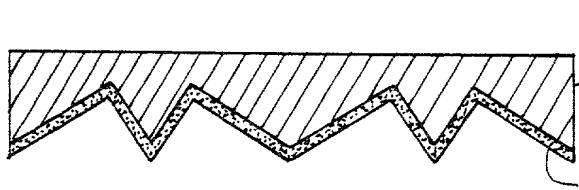


FIG. 2B

Coat cast with layer of
photoresist

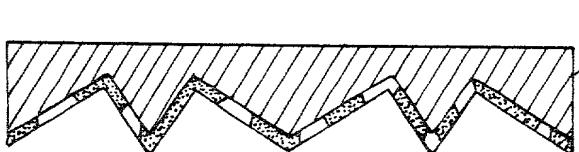


FIG. 2C

Random exposure of photoresist
to a speckle pattern

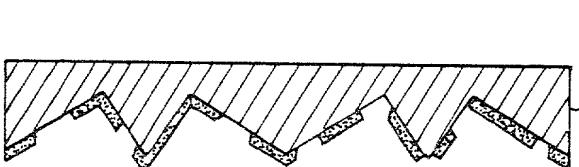


FIG. 2D

Development of resist

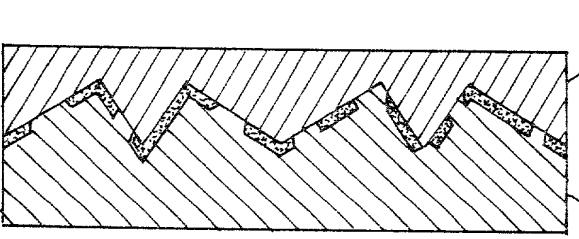


FIG. 2E

Electroform with nickel to
create a new indenting tool

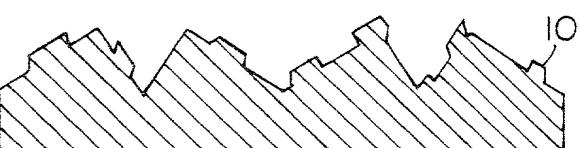


FIG. 2F

Removing the cast to reveal
the new nickel indenting tool

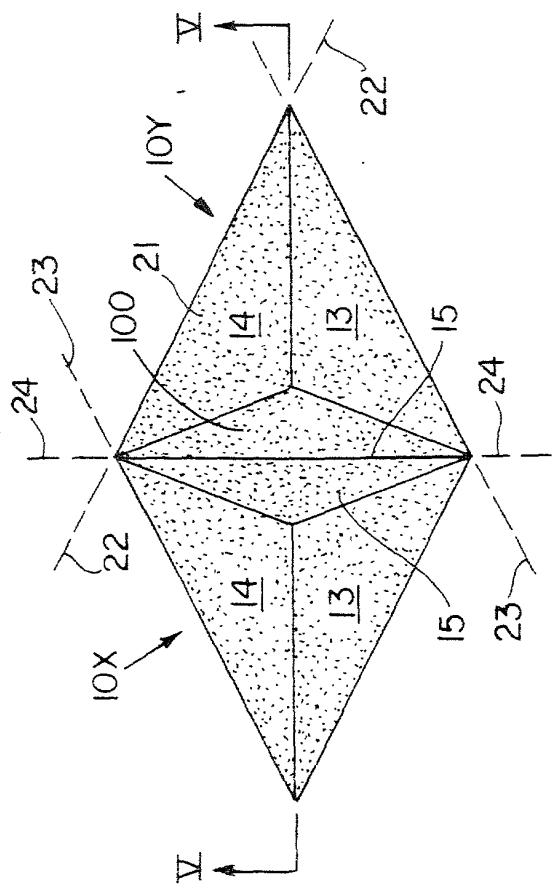


FIG. 4

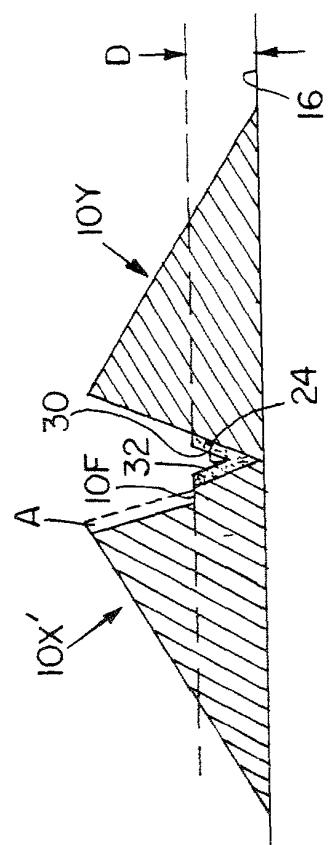


FIG. 6

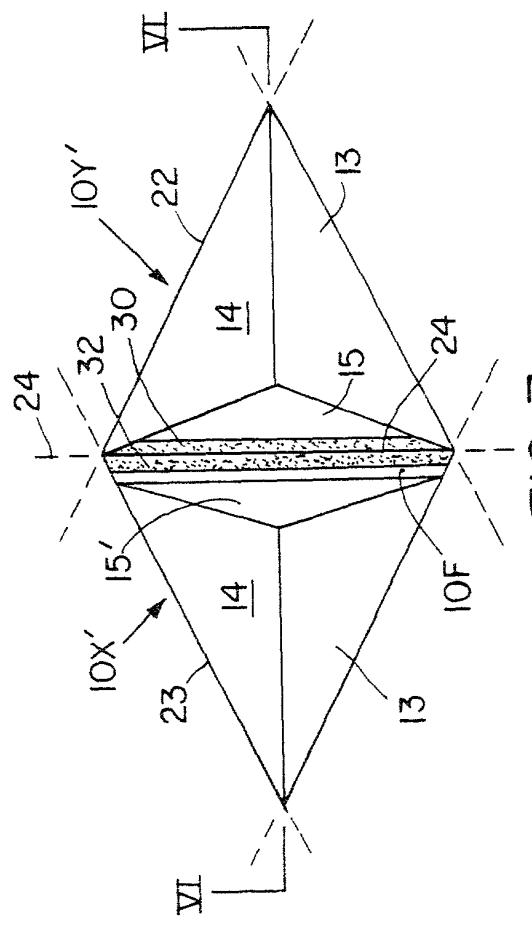


FIG. 7

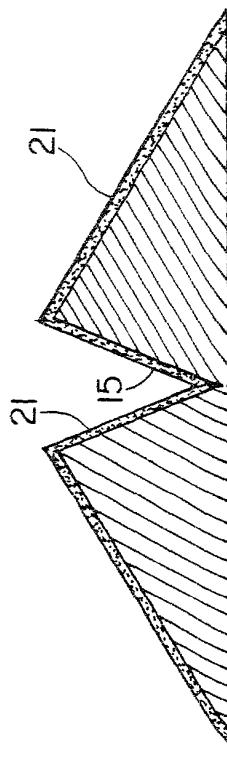
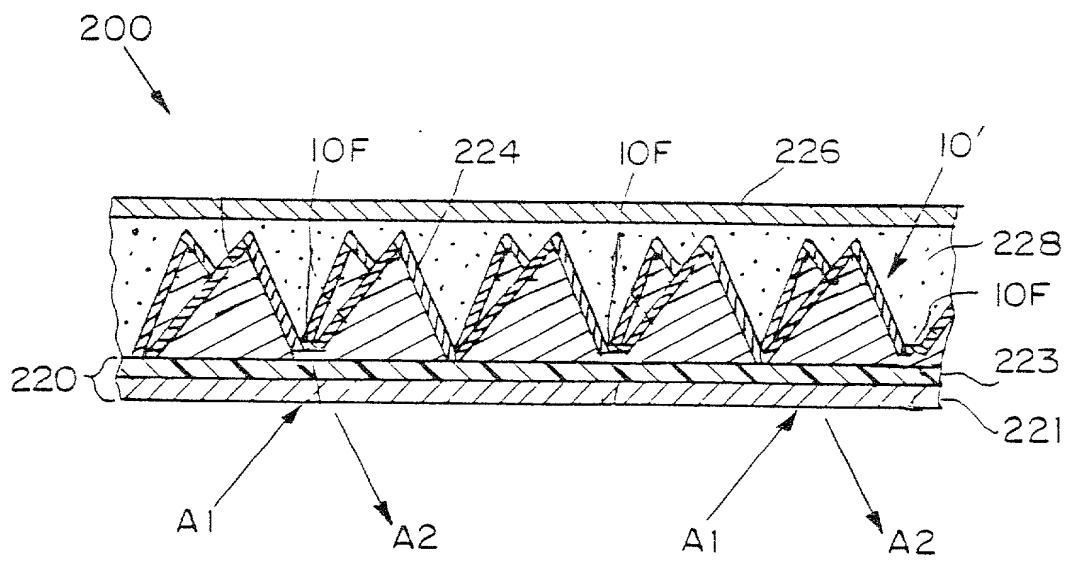
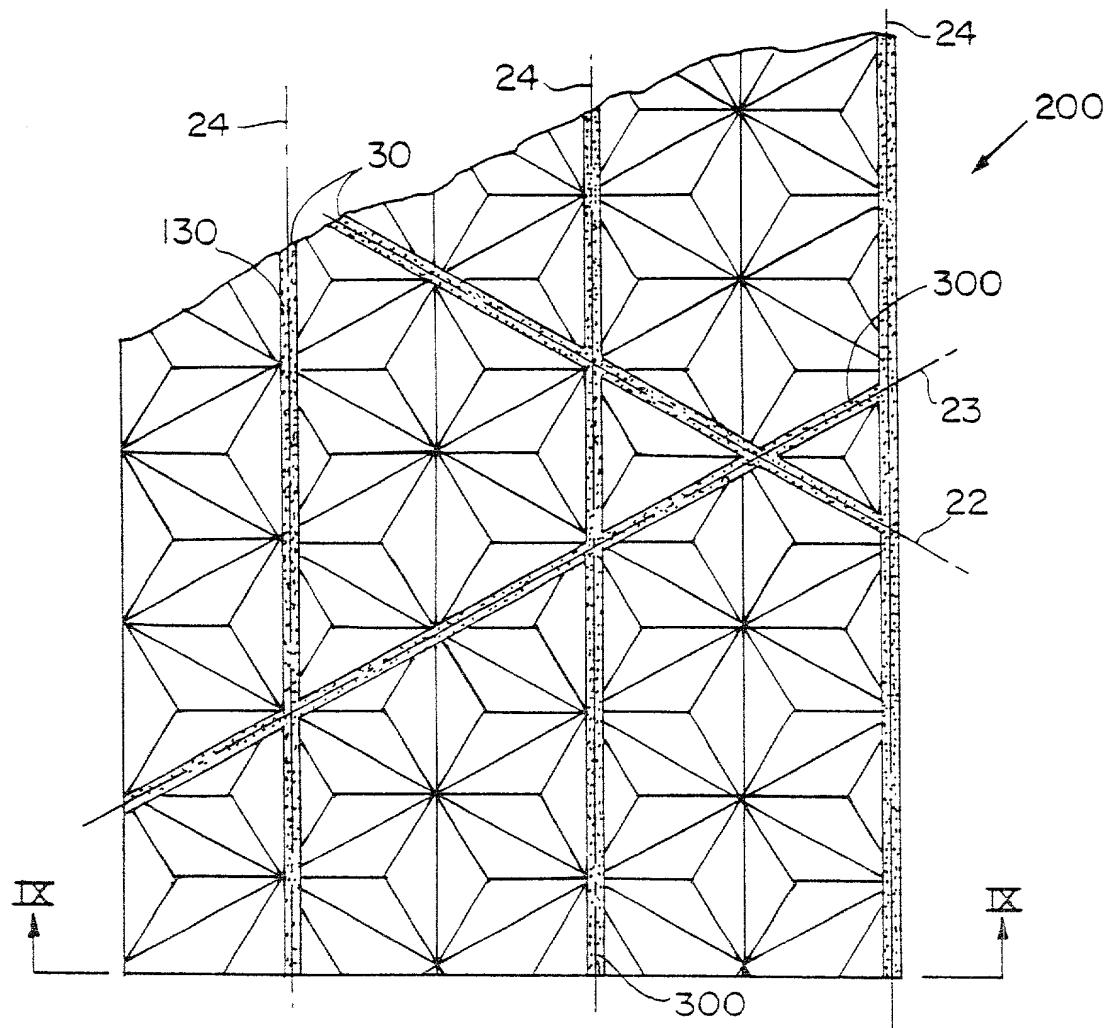


FIG. 5



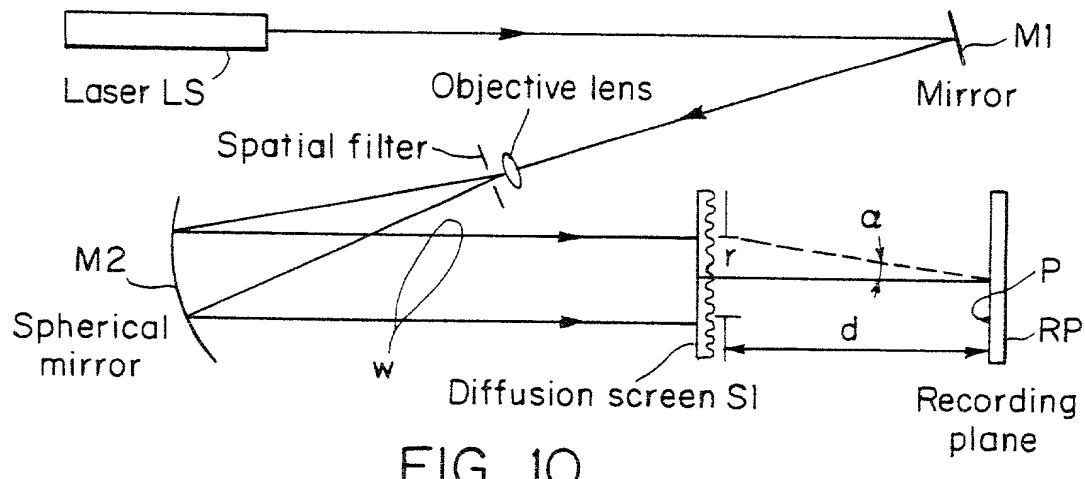


FIG. 10

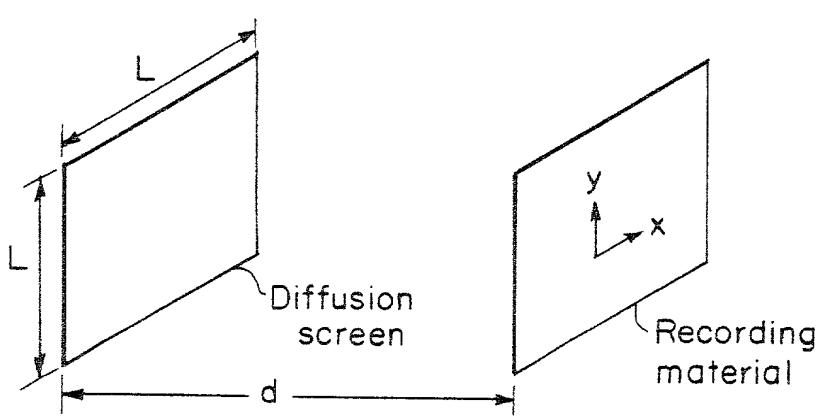


FIG. 12

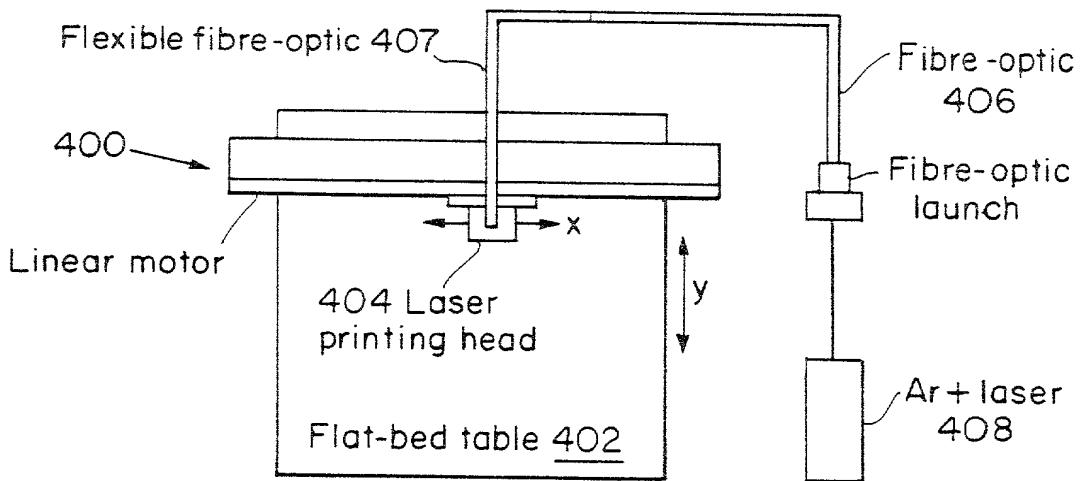


FIG. 13

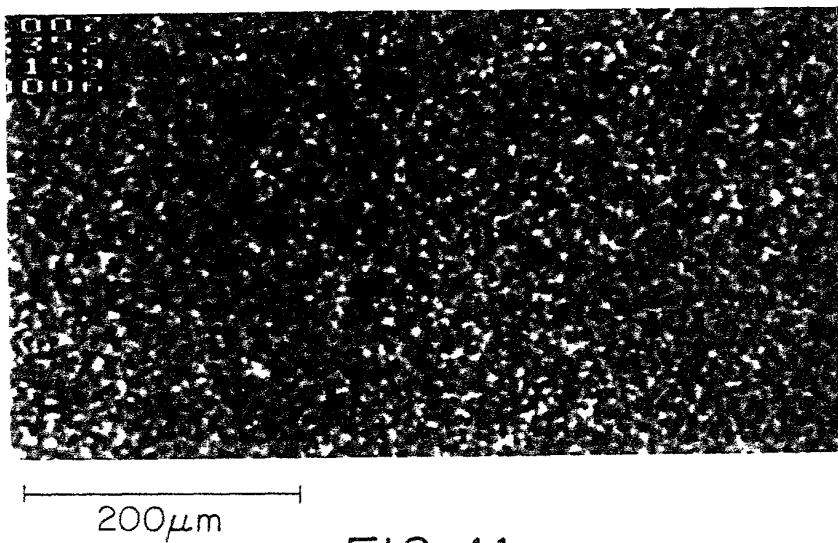
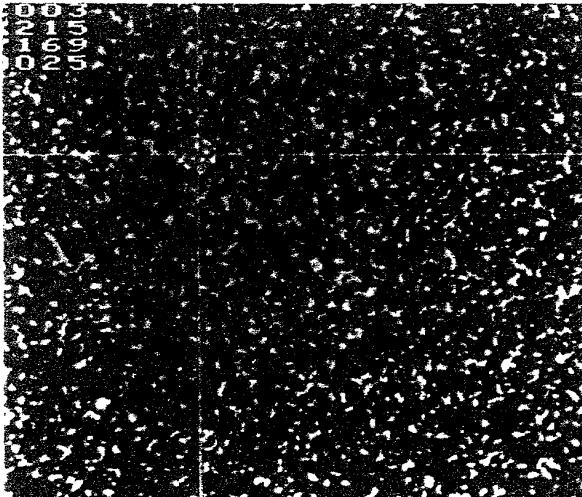
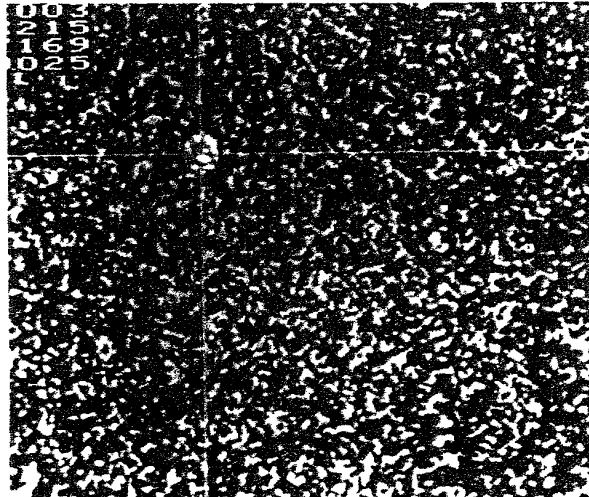


FIG. 11



480mJ/cm²

FIG. 19A



497mJ/cm²

FIG. 19B

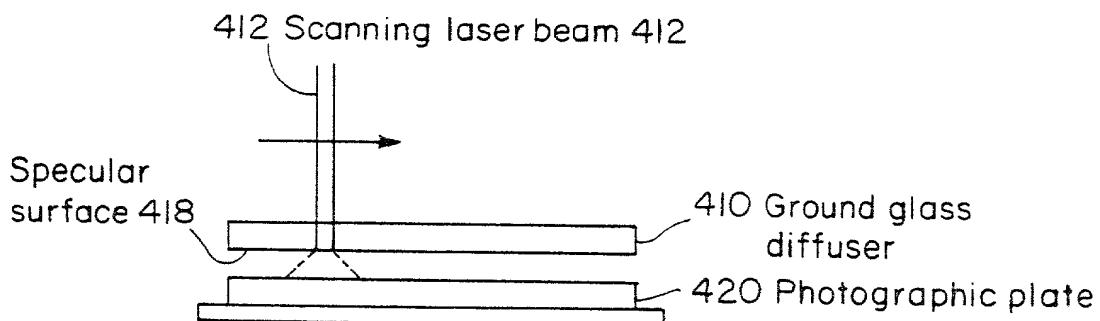


FIG. 14

F060200-G07T0\$50

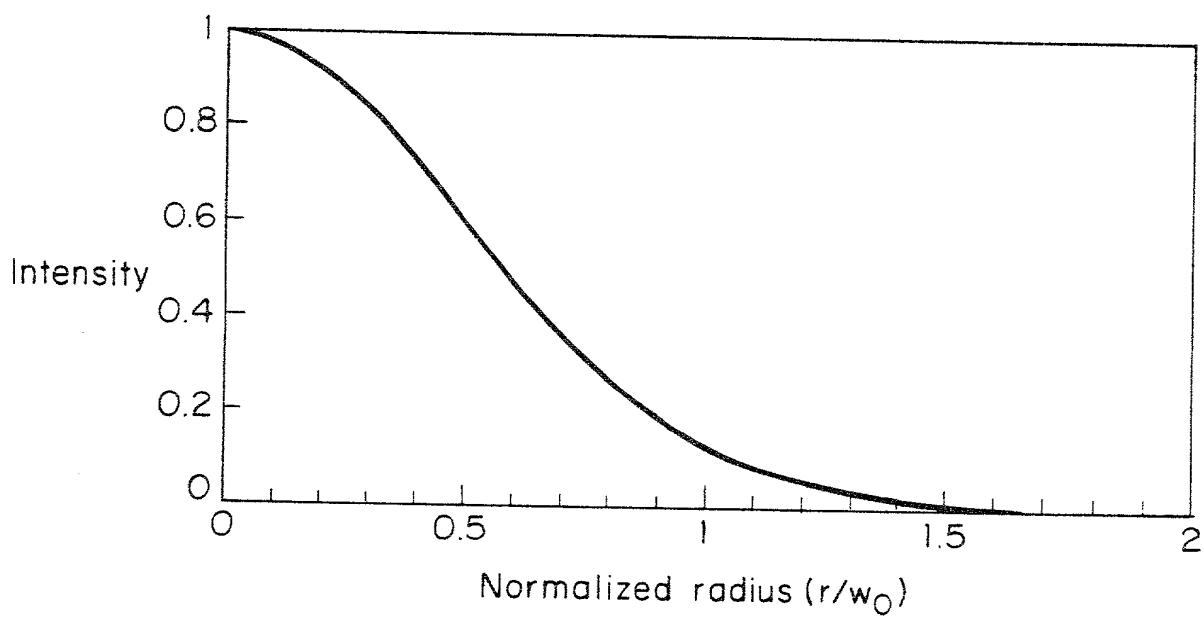


FIG. 15

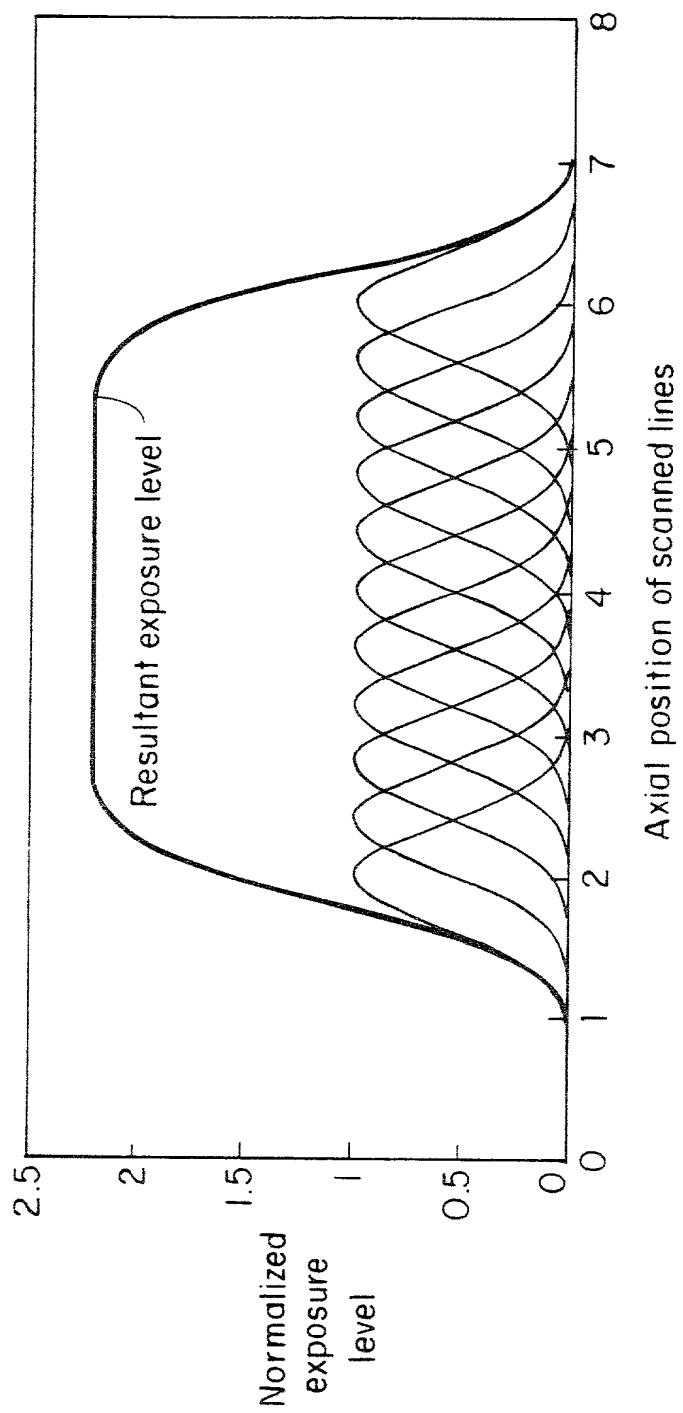


FIG. 16

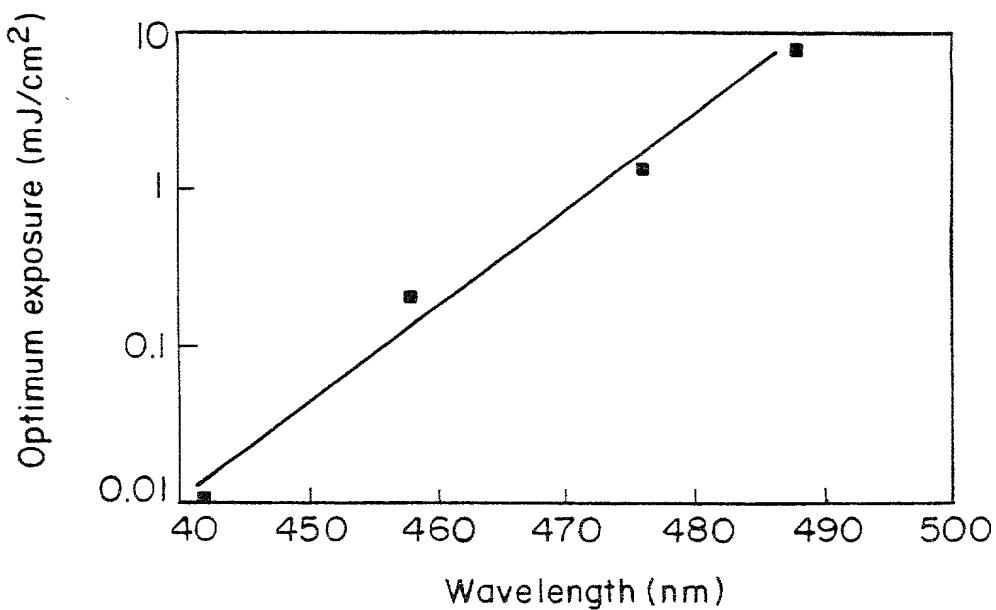


FIG. 17

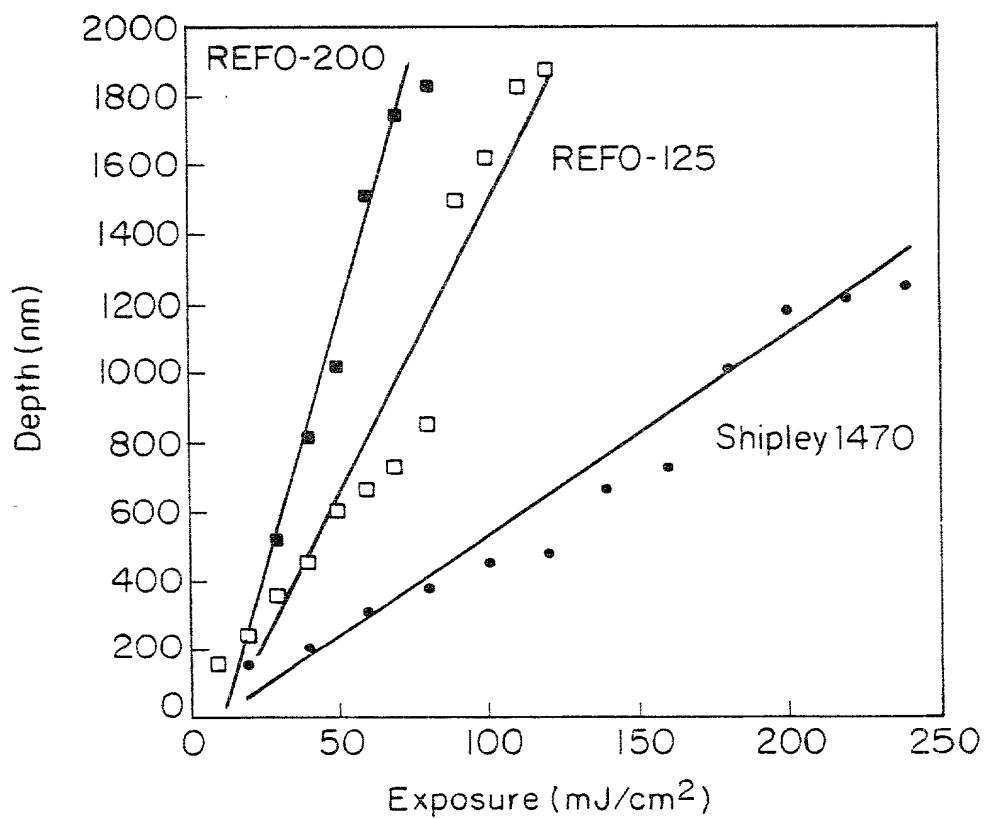
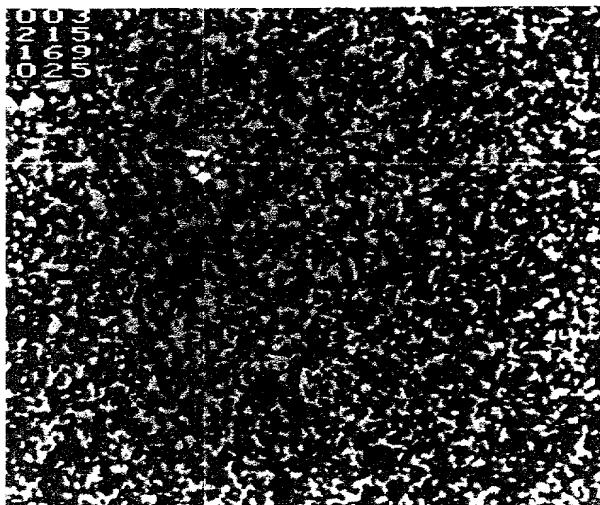
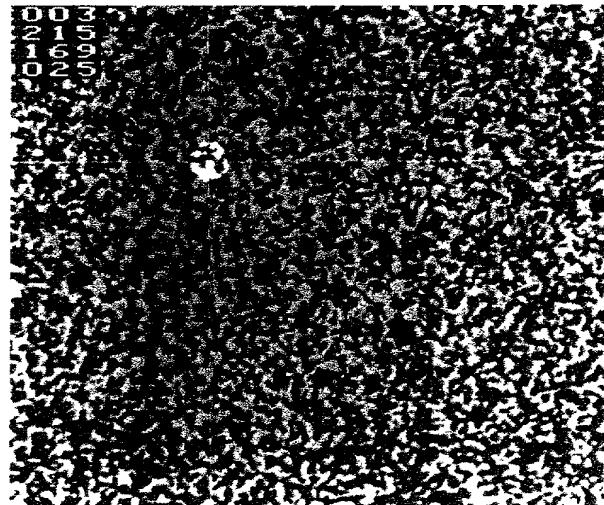


FIG. 18



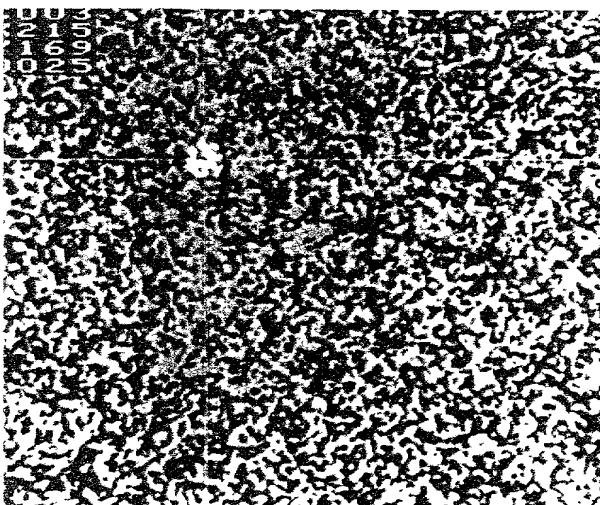
514 mJ/cm²

FIG. 19C



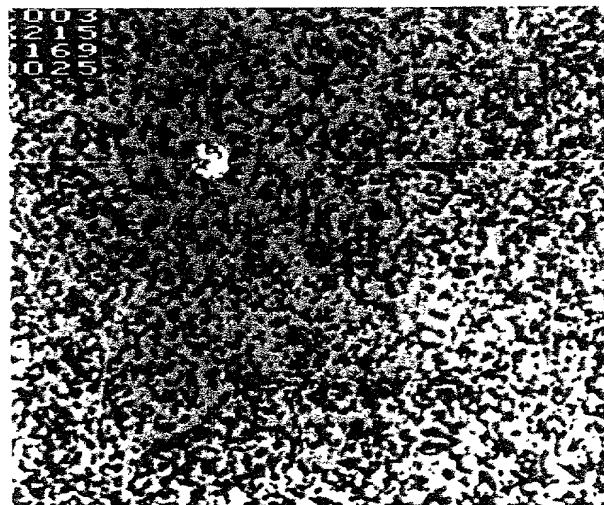
533 mJ/cm²

FIG. 19D



554 mJ/cm²

FIG. 19E



576 mJ/cm²

FIG. 19F